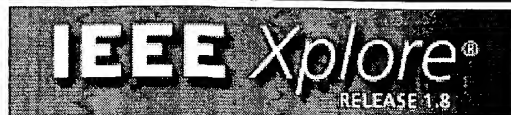


TITLE

System and method for authenticating objects

<p>FILING FEE RECEIVED 394</p>	<p>FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:</p>	<p><input type="checkbox"/> All Fees</p> <p><input type="checkbox"/> 1.16 Fees (Filing)</p> <p><input type="checkbox"/> 1.17 Fees (Processing Ext. of time)</p> <p><input type="checkbox"/> 1.18 Fees (Issue)</p> <p><input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Credit</p>
--	--	--

[IEEE HOME](#) | [SEARCH IEEE](#) | [SHOP](#) | [WEB ACCOUNT](#) | [CONTACT IEEE](#)[Membership](#) | [Publications/Services](#) | [Standards](#) | [Conferences](#) | [Careers/Jobs](#)

Welcome
United States Patent and
Trademark Office

[Help](#) [FAQ](#) [Terms](#) [IEEE](#)[Quick Links](#)[» Search Results](#)[Peer Review](#)

Welcome to IEEE Xplore®

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

IEEE Enterprise

- ☐ Access the IEEE Enterprise File Cabinet

Print Format

Your search matched **3** of **1071730** documents.
A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance** in **Descending** order.

Refine This Search:

You may refine your search by editing the current search expression or entering a new one in the text box.

☐ Check to search within this result set**Results Key:**

JNL = Journal or Magazine **CNF** = Conference **STD** = Standard

1 Spatial domain digital watermarking of multimedia objects for buyer authentication

Mukherjee, D.P.; Maitra, S.; Acton, S.T.;

Multimedia, IEEE Transactions on , Volume: 6 , Issue: 1 , Feb. 2004
Pages:1 - 15

[\[Abstract\]](#) [\[PDF Full-Text \(800 KB\)\]](#) **IEEE JNL**

2 Fragile watermark based on the Gaussian mixture model in the wavelet domain for image authentication

Yuan, H.; Zhang, X.-P.;

Image Processing, 2003. Proceedings. 2003 International Conference on , Volume: 1 , 14-17 Sept. 2003
Pages:I - 505-8 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(385 KB\)\]](#) **IEEE CNF**

3 Blind detection of malicious alterations on still images using robust watermarks

Rey, C.; Dugelay, J.-L.;

Secure Images and Image Authentication (Ref. No. 2000/039), IEE Seminar on , 10 April 2000

Pages: 7/1 - 7/6

[\[Abstract\]](#) [\[PDF Full-Text \(724 KB\)\]](#) **IEEE CNF**

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) |
[Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) |
[Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#)
[FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2004 IEEE — All rights reserved

IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Membership Publications/Services Standards Conferences Careers/Jobs



Welcome
United States Patent and
Trademark Office


[Help](#) [FAQ](#) [Terms](#) [IEEE](#)
[Quick Links](#)
[Peer Review](#)

» Search Results

Welcome to IEEE Xplore®

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

IEEE Enterprise

- ☐ Access the IEEE Enterprise File Cabinet

Print Format

Your search matched **20** of **1071730** documents.
A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance** in **Descending** order.

Refine This Search:

You may refine your search by editing the current search expression or entering a new one in the text box.

☐ Check to search within this result set
Results Key:

JNL = Journal or Magazine **CNF** = Conference **STD** = Standard

1 Counterfeiting attacks on oblivious block-wise independent invisible watermarking schemes

Holliman, M.; Memon, N.;

Image Processing, IEEE Transactions on , Volume: 9 , Issue: 3 , March 2000

Pages:432 - 441

[\[Abstract\]](#) [\[PDF Full-Text \(1060 KB\)\]](#) **IEEE JNL**

2 A modified robust embedding scheme for faithful watermark extraction

Te-Shen Liang; Rodriguez, J.J.;

Image Processing, 2000. Proceedings. 2000 International Conference on , Volume: 1 , 10-13 Sept. 2000

Pages:419 - 422 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(380 KB\)\]](#) **IEEE CNF**

3 Transparent robust authentication and distortion measurement technique for images

Zhu, B.; Swanson, M.D.; Tewfik, A.H.;

Digital Signal Processing Workshop Proceedings, 1996., IEEE , 1-4

Sept. 1996
Pages:45 - 48

[\[Abstract\]](#) [\[PDF Full-Text \(604 KB\)\]](#) **IEEE CNF**

4 A robust public watermark for halftone images

Ming Sun Fu; Au, O.C.;

Circuits and Systems, 2002. ISCAS 2002. IEEE International Symposium on , Volume: 3 , 26-29 May 2002
Pages:639 - 642

[\[Abstract\]](#) [\[PDF Full-Text \(744 KB\)\]](#) **IEEE CNF**

5 Watermarks embedded in the permuted image

Jui-Cheng Yen;

Circuits and Systems, 2001. ISCAS 2001. The 2001 IEEE International Symposium on , Volume: 2 , 6-9 May 2001
Pages:53 - 56 vol. 2

[\[Abstract\]](#) [\[PDF Full-Text \(460 KB\)\]](#) **IEEE CNF**

6 A methodology for data hiding using images

Marvel, L.M.; Retter, C.T.; Boncelet, C.G., Jr.;

Military Communications Conference, 1998. MILCOM 98. Proceedings., IEEE , Volume: 3 , 18-21 Oct. 1998
Pages:1044 - 1047 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(468 KB\)\]](#) **IEEE CNF**

7 Hiding information in images

Marvel, L.M.; Retter, C.T.; Boncelet, C.G., Jr.;

Image Processing, 1998. ICIP 98. Proceedings. 1998 International Conference on , Volume: 2 , 4-7 Oct. 1998
Pages:396 - 398 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(272 KB\)\]](#) **IEEE CNF**

8 Invisible watermarking for digital video applications and challenges

Huggett, A.; Stubbings, C.;

Secure Images and Image Authentication (Ref. No. 2000/039), IEE Seminar on , 10 April 2000
Pages:9/1 - 9/6

[\[Abstract\]](#) [\[PDF Full-Text \(508 KB\)\]](#) **IEE CNF**

9 Next generation technologies to combat counterfeiting of electronic components

Bastia, S.;

Components and Packaging Technologies, IEEE Transactions on [see also Components, Packaging and Manufacturing Technology, Part A: Packaging Technologies, IEEE Transactions on] , Volume: 25 , Issue: 1 , March 2002

Pages:175 - 176

[\[Abstract\]](#) [\[PDF Full-Text \(155 KB\)\]](#) **IEEE JNL**

10 Spatial domain digital watermarking of multimedia objects for buyer authentication

Mukherjee, D.P.; Maitra, S.; Acton, S.T.;

Multimedia, IEEE Transactions on , Volume: 6 , Issue: 1 , Feb. 2004

Pages:1 - 15

[\[Abstract\]](#) [\[PDF Full-Text \(800 KB\)\]](#) **IEEE JNL**

11 Secret and public key image watermarking schemes for image authentication and ownership verification

Ping Wah Wong; Memon, N.;

Image Processing, IEEE Transactions on , Volume: 10 , Issue: 10 , Oct. 2001

Pages:1593 - 1601

[\[Abstract\]](#) [\[PDF Full-Text \(280 KB\)\]](#) **IEEE JNL**

12 A new decoder for the optimum recovery of nonadditive watermarks

Barni, M.; Bartolini, F.; De Rosa, A.; Piva, A.;

Image Processing, IEEE Transactions on , Volume: 10 , Issue: 5 , May 2001

Pages:755 - 766

[\[Abstract\]](#) [\[PDF Full-Text \(260 KB\)\]](#) **IEEE JNL**

13 A class of authentication digital watermarks for secure multimedia communication

Liehua Me; Arce, G.R.;

Image Processing, IEEE Transactions on , Volume: 10 , Issue: 11 , Nov. 2001

Pages:1754 - 1764

[\[Abstract\]](#) [\[PDF Full-Text \(275 KB\)\]](#) **IEEE JNL**

14 A multi-bit robust watermark for halftone images*Ming Sun Fu; Au, O.C.;*

Multimedia and Expo, 2003. ICME '03. Proceedings. 2003

International Conference on , Volume: 1 , 6-9 July 2003

Pages:I - 213-16 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(401 KB\)\]](#) **IEEE CNF**

15 Fragile watermark based on the Gaussian mixture model in the wavelet domain for image authentication*Yuan, H.; Zhang, X.-P.;*

Image Processing, 2003. Proceedings. 2003 International Conference on , Volume: 1 , 14-17 Sept. 2003

Pages:I - 505-8 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(385 KB\)\]](#) **IEEE CNF**

[1](#) [2](#) [Next](#)

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2004 IEEE — All rights reserved

IEEE HOME | SEARCH IEEE | SHOP | WEB ACCOUNT | CONTACT IEEE



Membership | Publications/Services | Standards | Conferences | Careers/Jobs



Welcome
United States Patent and
Trademark Office


[Help](#) [FAQ](#) [Terms](#) [IEEE](#)
[Quick Links](#)

» Search Results

Peer Review

Welcome to IEEE Xplore®

- ☐ Home
- ☐ What Can I Access?
- ☐ Log-out

Tables of Contents

- ☐ Journals & Magazines
- ☐ Conference Proceedings
- ☐ Standards

Search

- ☐ By Author
- ☐ Basic
- ☐ Advanced

Member Services

- ☐ Join IEEE
- ☐ Establish IEEE Web Account
- ☐ Access the IEEE Member Digital Library

IEEE Enterprise

- ☐ Access the IEEE Enterprise File Cabinet

Print Format

Your search matched **20** of **1071730** documents.
A maximum of **500** results are displayed, **15** to a page, sorted by
Relevance in Descending order.

Refine This Search:

You may refine your search by editing the current search expression or entering a new one in the text box.

☐ Check to search within this result set
Results Key:

JNL = Journal or Magazine **CNF** = Conference **STD** = Standard

16 Independent component analysis applied to digital image watermarking

Gonzalez-Serrano, F.J.; Molina-Bulla, H.Y.; Murillo-Fuentes, J.J.;
Acoustics, Speech, and Signal Processing, 2001. Proceedings.
(ICASSP '01). 2001 IEEE International Conference on , Volume:
3 , 7-11 May 2001
Pages:1997 - 2000 vol.3

[\[Abstract\]](#) [\[PDF Full-Text \(572 KB\)\]](#) **IEEE CNF**

17 Applications of data hiding in digital images

Fridrich, J.;

Signal Processing and Its Applications, 1999. ISSPA '99. Proceedings
of the Fifth International Symposium on , Volume: 1 , 22-25 Aug.
1999

Pages:9 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(20 KB\)\]](#) **IEEE CNF**

18 Transform permuted watermarking for copyright protection of digital video

Johnson, A.; Biggar, M.;

Global Telecommunications Conference, 1998. GLOBECOM 98. The

Bridge to Global Integration. IEEE , Volume: 2 , 8-12 Nov. 1998
Pages:684 - 689 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(320 KB\)\]](#) **IEEE CNF**

19 Watermarking for image authentication

Min Wu; Bede Liu;

Image Processing, 1998. ICIP 98. Proceedings. 1998 International Conference on , Volume: 2 , 4-7 Oct. 1998
Pages:437 - 441 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(548 KB\)\]](#) **IEEE CNF**

20 Blind detection of malicious alterations on still images using robust watermarks

Rey, C.; Dugelay, J.-L.;

Secure Images and Image Authentication (Ref. No. 2000/039), IEE Seminar on , 10 April 2000
Pages:7/1 - 7/6

[\[Abstract\]](#) [\[PDF Full-Text \(724 KB\)\]](#) **IEE CNF**

[Prev](#) [1](#) [2](#)

[Home](#) | [Log-out](#) | [Journals](#) | [Conference Proceedings](#) | [Standards](#) | [Search by Author](#) | [Basic Search](#) | [Advanced Search](#) | [Join IEEE](#) | [Web Account](#) | [New this week](#) | [OPAC Linking Information](#) | [Your Feedback](#) | [Technical Support](#) | [Email Alerting](#) | [No Robots Please](#) | [Release Notes](#) | [IEEE Online Publications](#) | [Help](#) | [FAQ](#) | [Terms](#) | [Back to Top](#)

Copyright © 2004 IEEE — All rights reserved

L Number	Hits	Search Text	DB	Time stamp
1	16	authenticat\$4 and ((invisible or non-visible) near indicia)	USPAT; DERWENT	2004/09/17 22:16
2	9	((authenticat\$4 and ((invisible or non-visible) near indicia)) and wavelength	USPAT; DERWENT	2004/09/17 22:17
3	8	((authenticat\$4 and ((invisible or non-visible) near indicia)) and wavelength) and imag\$4	USPAT; DERWENT	2004/09/17 22:19
4	8	((authenticat\$4 and ((invisible or non-visible) near indicia)) and wavelength) and imag\$4) and identification	USPAT; DERWENT	2004/09/17 22:19
5	7	((authenticat\$4 and ((invisible or non-visible) near indicia)) and wavelength) and imag\$4) and identification) and compar\$4	USPAT; DERWENT	2004/09/17 22:19
6	3	((authenticat\$4 and ((invisible or non-visible) near indicia)) and wavelength) and imag\$4) and identification) and compar\$4) and overlay\$4	USPAT; DERWENT	2004/09/17 22:19
7	2	((authenticat\$4 and ((invisible or non-visible) near indicia)) and wavelength) and imag\$4) and identification) and compar\$4) and overlay\$4) and encod\$4	USPAT; DERWENT	2004/09/17 22:27
8	4753	watermark\$4 or (invisible adj indicia)	USPAT; DERWENT	2004/09/17 22:27
9	1154	(watermark\$4 or (invisible adj indicia)) and authentic\$6	USPAT; DERWENT	2004/09/17 22:27
10	148	((watermark\$4 or (invisible adj indicia)) and authentic\$6) and wavelength	USPAT; DERWENT	2004/09/17 22:28
11	122	((watermark\$4 or (invisible adj indicia)) and authentic\$6) and wavelength) and imag\$4	USPAT; DERWENT	2004/09/17 22:29
12	91	((watermark\$4 or (invisible adj indicia)) and authentic\$6) and wavelength) and imag\$4) and layer	USPAT; DERWENT	2004/09/17 22:29
13	74	((watermark\$4 or (invisible adj indicia)) and authentic\$6) and wavelength) and imag\$4) and layer) and identification	USPAT; DERWENT	2004/09/17 22:34
14	0	((watermark\$4 or (invisible adj indicia)) and authentic\$6) and wavelength) and imag\$4) and layer) and (attach\$4 near identification)	USPAT; DERWENT	2004/09/17 22:30
15	0	((watermark\$4 or (invisible adj indicia)) and authentic\$6) and wavelength) and imag\$4) and layer) and (attach\$4 near identi\$6)	USPAT; DERWENT	2004/09/17 22:30
16	2	((watermark\$4 or (invisible adj indicia)) and authentic\$6) and wavelength) and imag\$4) and layer) and (add\$4 near identi\$6)	USPAT; DERWENT	2004/09/17 22:30
17	2	((watermark\$4 or (invisible adj indicia)) and authentic\$6) and wavelength) and imag\$4) and layer) and (add\$4 near identi\$6)) and compar\$4	USPAT; DERWENT	2004/09/17 22:31
18	54	((watermark\$4 or (invisible adj indicia)) and authentic\$6) and wavelength) and imag\$4) and layer) and identification) and encod\$4	USPAT; DERWENT	2004/09/17 22:35
19	0	((watermark\$4 or (invisible adj indicia)) and authentic\$6) and wavelength) and imag\$4) and layer) and identification) and encod\$4) and object and (printed adj region)	USPAT; DERWENT	2004/09/17 22:36
20	1	((watermark\$4 or (invisible adj indicia)) and authentic\$6) and object and (printed adj region)	USPAT; DERWENT	2004/09/17 22:38
21	0	((watermark\$4 or (invisible adj indicia)) and authentic\$6) and wavelength) and (printed adj region)	USPAT; DERWENT	2004/09/17 22:38

22	0	(printed adj region) with (invisible adj indicia)	USPAT; DERWENT	2004/09/17 22:39
23	0	(printed adj region) with (invisible adj mark)	USPAT; DERWENT	2004/09/17 22:40
24	11	region with (invisible adj mark)	USPAT; DERWENT	2004/09/17 22:45
25	10	((region with (invisible adj mark)) and print\$4	USPAT; DERWENT	2004/09/17 22:40
26	8	((region with (invisible adj mark)) and print\$4) and layer	USPAT; DERWENT	2004/09/17 22:40
27	5	((((region with (invisible adj mark)) and print\$4) and layer) and imag\$4	USPAT; DERWENT	2004/09/17 22:41
28	1	(((((region with (invisible adj mark)) and print\$4) and layer) and imag\$4) and identific\$6	USPAT; DERWENT	2004/09/17 22:42
29	5	(((((region with (invisible adj mark)) and print\$4) and layer) and imag\$4) and authentic\$6	USPAT; DERWENT	2004/09/17 22:43
31	5	((region with (invisible adj mark)) and authentic\$6) and wavelength	USPAT; DERWENT	2004/09/17 22:44
32	5	((((region with (invisible adj mark)) and authentic\$6) and wavelength) and layer	USPAT; DERWENT	2004/09/17 22:44
30	5	((region with (invisible adj mark)) and authentic\$6	USPAT; DERWENT	2004/09/17 22:45
33	26	authentication and (invisible adj mark)	USPAT; DERWENT	2004/09/17 22:46
34	7	(authentication and (invisible adj mark)) and region and layer	USPAT; DERWENT	2004/09/17 22:54
35	2	5599578.pn.	USPAT; DERWENT	2004/09/17 22:54
36	2	5599578.pn. and invisible	USPAT; DERWENT	2004/09/17 22:55
37	1	(5599578.pn. and invisible) and authentic\$6	USPAT; DERWENT	2004/09/17 22:55

L Number	Hits	Search Text	DB	Time stamp
2	8	((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication	USPAT; DERWENT	2004/09/17 21:26
3	7	((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and print\$4	USPAT; DERWENT	2004/09/17 21:26
4	4	(((((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and print\$4) and (invisible or non-visible)	USPAT; DERWENT	2004/09/17 21:32
5	2	(((((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and print\$4) and (invisible or non-visible)) and wavelength	USPAT; DERWENT	2004/09/17 21:28
6	1	(((((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and print\$4) and (invisible or non-visible)) and wavelength) and indicia	USPAT; DERWENT	2004/09/17 21:28

7	0	((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (invisible adj indicia)	USPAT; DERWENT	2004/09/17 21:54
8	0	((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (non-visible adj indicia)	USPAT; DERWENT	2004/09/17 21:32
9	0	((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (non-visible adj mark)	USPAT; DERWENT	2004/09/17 21:33
1	62	("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.	USPAT; DERWENT	2004/09/17 21:43
10	0	((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and authentication) and (invisible near indicia)	USPAT; DERWENT	2004/09/17 21:34
11	0	2001/0005570.ap.	USPAT; DERWENT	2004/09/17 21:43
12	0	2001/0005570.pn.	USPAT; DERWENT	2004/09/17 21:44
13	1	598357.pn.	EPO; JPO	2004/09/17 21:44
14	2	147912.pn.	EPO; JPO	2004/09/17 21:45
15	1	1147912.pn.	EPO; JPO	2004/09/17 21:45
16	0	1407065.pn.	EPO; JPO	2004/09/17 21:45
17	1	407065.pn.	EPO; JPO	2004/09/17 21:46
18	0	10407065.pn.	EPO; JPO	2004/09/17 21:46
19	0	1407065.pn.	EPO; JPO	2004/09/17 21:46
20	2428	beck.in.	EPO; JPO	2004/09/17 21:46
21	0	beck.in. and @pd = "19750924"	EPO; JPO	2004/09/17 21:47

22	8	beck.in. and "1975"	EPO; JPO	2004/09/17 21:48
23	161	beck.in. and GB	EPO; JPO	2004/09/17 21:48
24	0	(beck.in. and GB) and "1975"	EPO; JPO	2004/09/17 21:48
25	3	(beck.in. and GB) and "75"	EPO; JPO	2004/09/17 21:49
26	0	w092/04692	EPO; JPO	2004/09/17 21:49
27	0	w092/04692.pn.	EPO; JPO	2004/09/17 21:49
28	0	92/04692.pn.	EPO; JPO	2004/09/17 21:49
29	1	9204692.pn.	EPO; JPO	2004/09/17 21:50
30	1	9315491.pn.	EPO; JPO	2004/09/17 21:50
31	0	9407326.pn.	EPO; JPO	2004/09/17 21:51
32	0	94/07326.pn.	EPO; JPO	2004/09/17 21:51
33	0	9407326.pn.	EPO; JPO	2004/09/17 21:51
34	1	9815418.pn.	EPO; JPO	2004/09/17 21:52
35	0	0187632.pn.	EPO; JPO	2004/09/17 21:52
36	1	187632.pn.	EPO; JPO	2004/09/17 21:52
37	0	200187632.pn.	EPO; JPO	2004/09/17 21:54
38	0	((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and (invisible adj indicia)	USPAT; DERWENT	2004/09/17 21:54
39	0	((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and (invisible near indicia)	USPAT; DERWENT	2004/09/17 21:54
40	2	((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and (invisible with indicia)	USPAT; DERWENT	2004/09/17 21:54
41	0	((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and (invisible with indicia)) and authentication	USPAT; DERWENT	2004/09/17 21:55

42	0	((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and (invisible with indicia)) and authenticating	USPAT; DERWENT	2004/09/17 21:55
43	0	((("3524395" or "3635778" or "3642346" or "3784289" or "3937565" or "4092654" or "4198147" or "4303307" or "4715623" or "4914700" or "5027401" or "5113213" or "5178418" or "5195435" or "5303370" or "5396559" or "5438429" or "5708717" or "5830609" or "5904375" or "5974150" or "6084713" or "6104812" or "6171734" or "6222650" or "6252963" or "6256150" or "6280891" or "6343138" or "6414794" or "5735547").pn.) and (invisible with indicia)) and authenticat\$4	USPAT; DERWENT	2004/09/17 21:55
44	0	(invisible adj indicia) and authenticat\$4	USPAT; DERWENT	2004/09/17 21:55
45	10	(invisible adj indicia) and authenticat\$4	USPAT; DERWENT	2004/09/17 21:55
46	7	((invisible adj indicia) and authenticat\$4) and wavelength	USPAT; DERWENT	2004/09/17 21:55
47	6	(((invisible adj indicia) and authenticat\$4) and wavelength) and image	USPAT; DERWENT	2004/09/17 21:56
48	6	(((invisible adj indicia) and authenticat\$4) and wavelength) and image) and identification	USPAT; DERWENT	2004/09/17 21:56
49	5	((((((invisible adj indicia) and authenticat\$4) and wavelength) and image) and identification) and compar\$4	USPAT; DERWENT	2004/09/17 21:56
50	2	((((((invisible adj indicia) and authenticat\$4) and wavelength) and image) and identification) and compar\$4) and encod\$4	USPAT; DERWENT	2004/09/17 21:56

L Number	Hits	Search Text	DB	Time stamp
1	6	("5708717" or "4914700" or "4198147").pn.	USPAT; DERWENT	2004/09/17 20:01
2	4	((("5708717" or "4914700" or "4198147").pn.) and print\$4	USPAT; DERWENT	2004/09/17 20:01
3	1	((("5708717" or "4914700" or "4198147").pn.) and print\$4) and wavelength	USPAT; DERWENT	2004/09/17 20:02
4	1	((("5708717" or "4914700" or "4198147").pn.) and print\$4) and wavelength) and indicia	USPAT; DERWENT	2004/09/17 20:02
5	1	(((((("5708717" or "4914700" or "4198147").pn.) and print\$4) and wavelength) and indicia) and invisible	USPAT; DERWENT	2004/09/17 20:03
6	32311	authenticat\$4	USPAT; DERWENT	2004/09/17 20:04
7	1	authenticat\$4 and (object with (print\$4 adj region))	USPAT; DERWENT	2004/09/17 20:06
8	1	(authenticat\$4 and (object with (print\$4 adj region))) and invisible	USPAT; DERWENT	2004/09/17 20:06
9	0	((authenticat\$4 and (object with (print\$4 adj region))) and invisible) and wavelength	USPAT; DERWENT	2004/09/17 20:06
10	1	((authenticat\$4 and (object with (print\$4 adj region))) and invisible) and light	USPAT; DERWENT	2004/09/17 20:07
11	1	((((authenticat\$4 and (object with (print\$4 adj region))) and invisible) and light) and compar\$4	USPAT; DERWENT	2004/09/17 20:08
12	1	(((((authenticat\$4 and (object with (print\$4 adj region))) and invisible) and light) and compar\$4) and image	USPAT; DERWENT	2004/09/17 20:11
13	917990	382/100, 112, 139, 140.ccls.	USPAT; DERWENT	2004/09/17 20:16
14	1377	(382/100, 112, 139, 140.ccls.) and (print\$4 near region)	USPAT; DERWENT	2004/09/17 20:13
15	0	((382/100, 112, 139, 140.ccls.) and (print\$4 near region)) and (invisible adj indicia)	USPAT; DERWENT	2004/09/17 20:16
16	0	((382/100, 112, 139, 140.ccls.) and (print\$4 near region)) and (non-visible adj indicia)	USPAT; DERWENT	2004/09/17 20:14
17	2	(382/100, 112, 139, 140.ccls.) and (non-visible adj indicia)	USPAT; DERWENT	2004/09/17 20:14
18	28	(382/100, 112, 139, 140.ccls.) and (invisible adj indicia)	USPAT; DERWENT	2004/09/17 20:14
19	20	((382/100, 112, 139, 140.ccls.) and (invisible adj indicia)) and print\$4	USPAT; DERWENT	2004/09/17 20:17
20	9	((382/100, 112, 139, 140.ccls.) and (invisible adj indicia)) and print\$4) and wavelength	USPAT; DERWENT	2004/09/17 20:17
21	4	(((((382/100, 112, 139, 140.ccls.) and (invisible adj indicia)) and print\$4) and wavelength) and layer	USPAT; DERWENT	2004/09/17 20:17
22	4	(((((382/100, 112, 139, 140.ccls.) and (invisible adj indicia)) and print\$4) and wavelength) and layer) and compar\$4	USPAT; DERWENT	2004/09/17 20:17
23	103494	382/(100, 112, 139, "140").ccls.	USPAT; DERWENT	2004/09/17 20:16
24	11	(382/(100, 112, 139, "140").ccls.) and (invisible adj indicia)	USPAT; DERWENT	2004/09/17 20:18
25	10	((382/(100, 112, 139, "140").ccls.) and (invisible adj indicia)) and print\$4	USPAT; DERWENT	2004/09/17 20:18
26	8	((382/(100, 112, 139, "140").ccls.) and (invisible adj indicia)) and print\$4) and wavelength	USPAT; DERWENT	2004/09/17 20:18
27	2	(((((382/(100, 112, 139, "140").ccls.) and (invisible adj indicia)) and print\$4) and wavelength) and layer	USPAT; DERWENT	2004/09/17 20:18
28	1	(((((382/(100, 112, 139, "140").ccls.) and (invisible adj indicia)) and print\$4) and wavelength) and layer) and compar\$4	USPAT; DERWENT	2004/09/17 20:19

29	1852	(382/(100, 112, 139, "140").ccls.) and authenticat\$4	USPAT; DERWENT	2004/09/17 20:18
30	5	((382/(100, 112, 139, "140").ccls.) and authenticat\$4) and (invisible adj indicia)	USPAT; DERWENT	2004/09/17 20:18
31	5	((382/(100, 112, 139, "140").ccls.) and authenticat\$4) and (invisible adj indicia)) and print\$4	USPAT; DERWENT	2004/09/17 20:18
32	5	((382/(100, 112, 139, "140").ccls.) and authenticat\$4) and (invisible adj indicia)) and print\$4) and wavelength	USPAT; DERWENT	2004/09/17 20:18
33	0	((382/(100, 112, 139, "140").ccls.) and authenticat\$4) and (invisible adj indicia)) and print\$4) and wavelength) and layer	USPAT; DERWENT	2004/09/17 20:19
34	5	((382/(100, 112, 139, "140").ccls.) and authenticat\$4) and (invisible adj indicia)) and print\$4) and wavelength) and compar\$4	USPAT; DERWENT	2004/09/17 20:22
35	451	authenticat\$4 and object	EPO; JPO	2004/09/17 20:22
37	0	((authenticat\$4 and object) and wavelength) and invisible	EPO; JPO	2004/09/17 20:23
38	0	((authenticat\$4 and object) and wavelength) and non-visible	EPO; JPO	2004/09/17 20:23
39	0	((authenticat\$4 and object) and wavelength) and imperceptible	EPO; JPO	2004/09/17 20:23
40	0	((authenticat\$4 and object) and wavelength) and non-visible	EPO; JPO	2004/09/17 20:23
41	0	((authenticat\$4 and object) and wavelength) and invisible	EPO; JPO	2004/09/17 20:24
42	0	((authenticat\$4 and object) and wavelength) and imperceptibel	EPO; JPO	2004/09/17 20:24
36	7	(authenticat\$4 and object) and wavelength	EPO; JPO	2004/09/17 20:24
43	2	(authenticat\$4 and object) and invisible	EPO; JPO	2004/09/17 20:24
44	1	((authenticat\$4 and object) and invisible) and light	EPO; JPO	2004/09/17 20:24

	U	1	Document ID	Issue Date	Page s	Title	Current OR
1	<input type="checkbox"/>	<input type="checkbox"/>	JP 10320517 A	19981204	5	IDENTITY AUTHENTICATION METHOD AND DEVICE THEREFOR USING MARK INVISIBLE TO NAKED EYE	

[illegible]

	Image Doc. Displayed	PT
1	JP 10320517 A	<input type="checkbox"/>

	U	1	Document ID	Issue Date	Page s	Title	Current OR
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6536665 B1	20030325	10	Method and apparatus for transaction card security utilizing embedded image data	235/380

[illegible]

	Image Doc. Displayed	PT
1	US 6536665	<input type="checkbox"/>

	U	1	Document ID	Issue Date	Page s	Title	Current OR
1	<input type="checkbox"/>	<input type="checkbox"/>	US 6603871 B2	20030805	17	First-order authentication system	382/135
2	<input type="checkbox"/>	<input type="checkbox"/>	US 6470093 B2	20021022	12	First-order authentication system	382/135
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6373965 B1	20020416	23	Apparatus and methods for authentication using partially fluorescent graphic images and OCR characters	382/112
4	<input type="checkbox"/>	<input type="checkbox"/>	US 5867586 A	19990202	13	Apparatus and methods for fluorescent imaging and optical character reading	382/112
5	<input type="checkbox"/>	<input type="checkbox"/>	US 5719948 A	19980217	12	Apparatus and methods for fluorescent imaging and optical character reading	382/112

[illegible]

	Image Doc. Displayed	PT
1	US 6603871	<input type="checkbox"/>
2	US 6470093	<input type="checkbox"/>
3	US 6373965	<input type="checkbox"/>
4	US 5867586	<input type="checkbox"/>
5	US 5719948	<input type="checkbox"/>

L Number	Hits	Search Text	DB	Time stamp
1	32315	authenticat\$6	USPAT; DERWENT	2004/09/18 13:00
2	207	authenticat\$6 and ((attach\$4 or add\$4) near identification)	USPAT; DERWENT	2004/09/18 13:00
3	17	(authenticat\$6 and ((attach\$4 or add\$4) near identification)) and invisible	USPAT; DERWENT	2004/09/18 13:00
4	12	((authenticat\$6 and ((attach\$4 or add\$4) near identification)) and invisible) and encod\$4	USPAT; DERWENT	2004/09/18 12:57
5	11	((authenticat\$6 and ((attach\$4 or add\$4) near identification)) and invisible) and encod\$4) and image	USPAT; DERWENT	2004/09/18 12:57
6	17	((authenticat\$6 and ((attach\$4 or add\$4) near identification)) and invisible) and encod\$4) and image) and compar\$4	USPAT; DERWENT	2004/09/18 12:57
7	10	((authenticat\$6 and ((attach\$4 or add\$4) near identification)) and invisible) and encod\$4) and image) and compar\$4	USPAT; DERWENT	2004/09/18 12:57
8	3	((authenticat\$6 and ((attach\$4 or add\$4) near identification)) and invisible) and encod\$4) and image) and compar\$4) and indicia	USPAT; DERWENT	2004/09/18 12:58
9	3	((authenticat\$6 and ((attach\$4 or add\$4) near identification)) and invisible) and encod\$4) and image) and compar\$4) and object	USPAT; DERWENT	2004/09/18 12:58
10	3	((authenticat\$6 and ((attach\$4 or add\$4) near identification)) and invisible) and encod\$4) and image) and compar\$4) and indicia) and object) and light	USPAT; DERWENT	2004/09/18 12:58
11	10757	authenticat\$6.ti.	USPAT; DERWENT	2004/09/18 13:00
12	22	authenticat\$6.ti. and ((attach\$4 or add\$4) near identification)	USPAT; DERWENT	2004/09/18 13:04
13	1	(authenticat\$6.ti. and ((attach\$4 or add\$4) near identification)) and invisible	USPAT; DERWENT	2004/09/18 13:01
14	1	((authenticat\$6.ti. and ((attach\$4 or add\$4) near identification)) and invisible) and compar\$4	USPAT; DERWENT	2004/09/18 13:01
15	1	(authenticat\$6.ti. and ((attach\$4 or add\$4) near identification)) and (invisible or imperceiv\$4)	USPAT; DERWENT	2004/09/18 13:02
16	1	(authenticat\$6.ti. and ((attach\$4 or add\$4) near identification)) and (invisible or imperceiv\$4 or non-visible)	USPAT; DERWENT	2004/09/18 13:32
17	23	authenticat\$6.ti. and ((attach\$4 or add\$4 or append\$4) near identification)	USPAT; DERWENT	2004/09/18 13:03
18	8	(authenticat\$6.ti. and ((attach\$4 or add\$4 or append\$4) near identification)) and article	USPAT; DERWENT	2004/09/18 13:03
19	0	((authenticat\$6.ti. and ((attach\$4 or add\$4 or append\$4) near identification)) and article) and (invisible or imperceiv\$4 or non-visible)	USPAT; DERWENT	2004/09/18 13:04
20	149	(invisible or imperceiv\$4 or non-visible) near indicia	USPAT; DERWENT	2004/09/18 13:04
21	0	((invisible or imperceiv\$4 or non-visible) near indicia) and ((attach\$4 or add\$4) near identification)	USPAT; DERWENT	2004/09/18 13:05
22	1	((invisible or imperceiv\$4 or non-visible) near indicia) and (additional near identification)	USPAT; DERWENT	2004/09/18 13:05
23	1	((invisible or imperceiv\$4 or non-visible) near indicia) and (additional near identification)) and article	USPAT; DERWENT	2004/09/18 13:05
24	1	6373965.pn. and encod\$4	USPAT; DERWENT	2004/09/18 14:15

25	1	6373965.pn. and lens	USPAT; DERWENT	2004/09/18 14:16
26	0	6373965.pn. and network	USPAT; DERWENT	2004/09/18 14:16
27	1	6373965.pn. and communication	USPAT; DERWENT	2004/09/18 14:17
28	0	6373965.pn. and database	USPAT; DERWENT	2004/09/18 14:17
29	2447063	6373965.pn. and data base	USPAT; DERWENT	2004/09/18 14:17
30	0	6373965.pn. and (data adj base)	USPAT; DERWENT	2004/09/18 14:18
31	0	6373965.pn. and base	USPAT; DERWENT	2004/09/18 14:18
32	0	6373965.pn. and file	USPAT; DERWENT	2004/09/18 14:24
33	1	6373965.pn. and distance	USPAT; DERWENT	2004/09/18 14:29
34	1	6373965.pn. and transmit\$4	USPAT; DERWENT	2004/09/18 14:55
35	1	6373965.pn. and computer	USPAT; DERWENT	2004/09/18 15:00
36	1	6373965.pn. and location	USPAT; DERWENT	2004/09/18 15:17
37	1	10320517.pn.	EPO; JPO	2004/09/18 15:18